

PROJECT DIRECTORY:

OWNER: CITY OF BRENTWOOD

CONTACTS: MIKE AZAMEY
CITY OF BRENTWOOD PARKS
& RECREATION DEPT.
150 CITY PARK WAY
BRENTWOOD, CA 94513
Cell: 925-382-5470
Tel: 925-516-5371
email: mazamey@cl.brentwood.ca.us

PROJECT ADDRESS:

195 GRIFFITH LANE
BRENTWOOD, CA 94513

LIST OF DRAWINGS

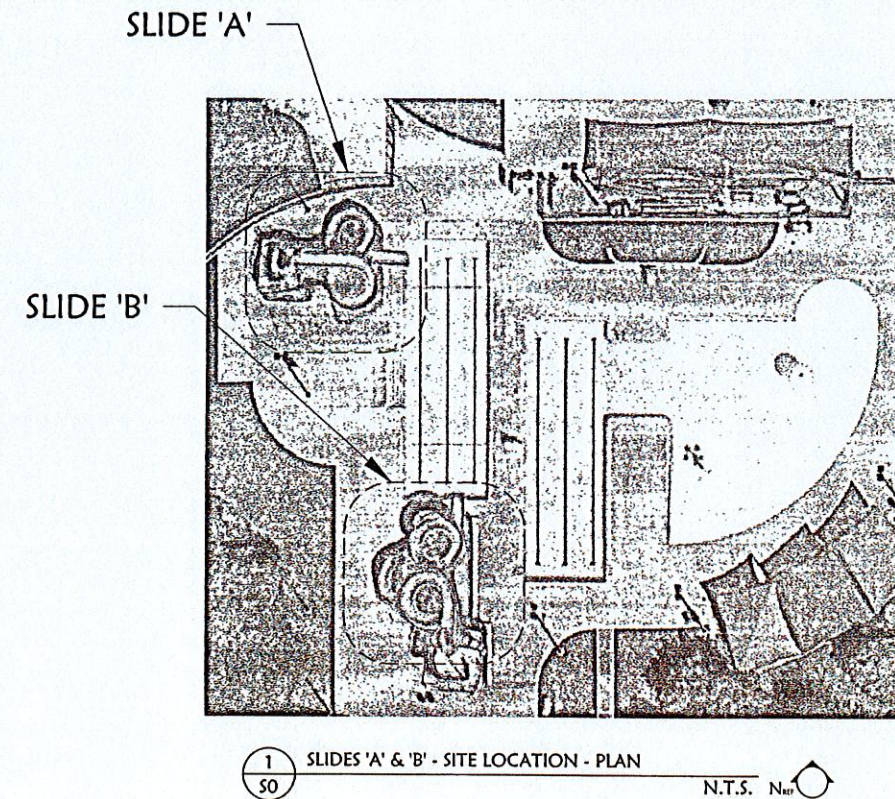
S0	COVER SHEET - PROJECT DIRECTORY, LIST OF DRAWINGS, SCOPE OF WORK AND SLIDE 'A' & SLIDE 'B' PLAN VIEW
S1	SLIDE 'A' FRAMING AND REPAIR PLAN & DETAIL
S2	SLIDE 'B' FRAMING AND REPAIR PLAN & DETAIL

SCOPE OF WORK

1. STRUCTURAL STRENGTHENING OF EXISTING WATER SLIDE PLATFORMS & STAIR LANDINGS

APPLICABLE CODES

2012 IBC, 2013 CBC, 2012 IEBC



REVISIONS	BY



EARTHQUAKE AND STRUCTURES, INC.
 Structural ~ Civil ~ Construction Management
 6355 Telegraph Avenue
 Suite 101
 Oakland, CA 94609
 Tel. (510) 601-1065
 Fax (510) 601-1808
 www.esdengineers.com

COVER SHEET - PROJECT DIRECTORY,
LIST OF DRAWINGS, SCOPE OF WORK,
& SLIDE 'A' & 'B' PLAN VIEW

BRENTWOOD AQUATIC COMPLEX
195 GRIFFITH WAY
BRENTWOOD, CA 94513

DATE 10/18/16

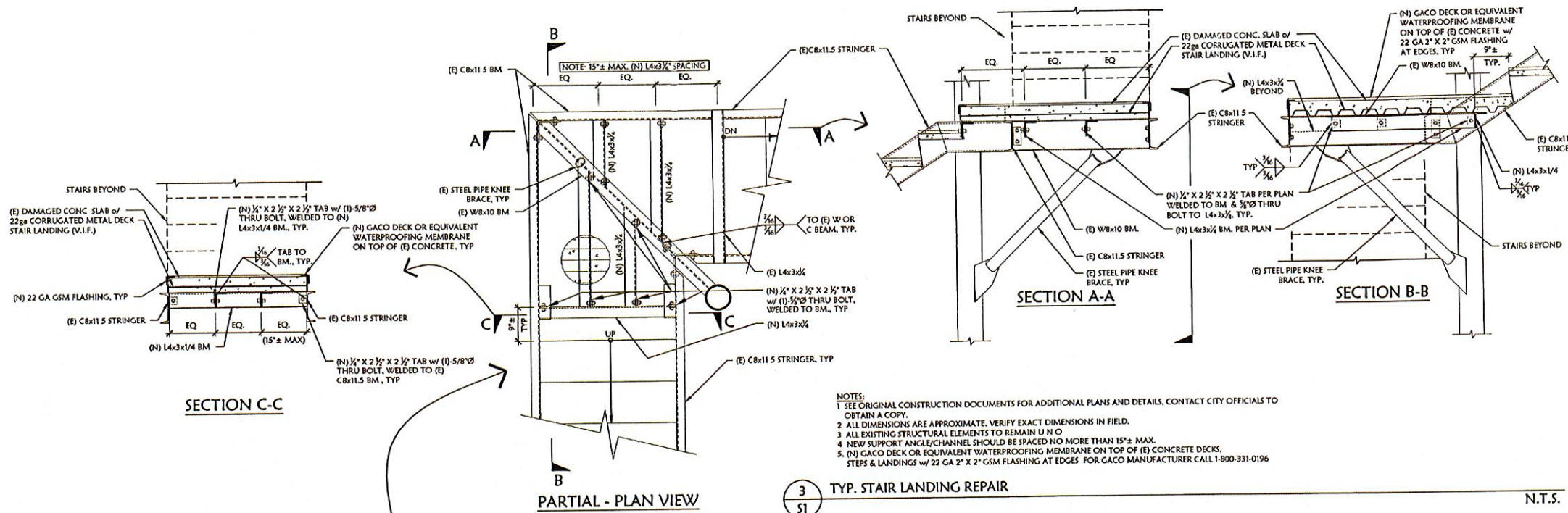
SCALE AS NOTED

DRAWN AT/FD

JOB 12-1467

SHEET **50**
OF 3 SHEETS

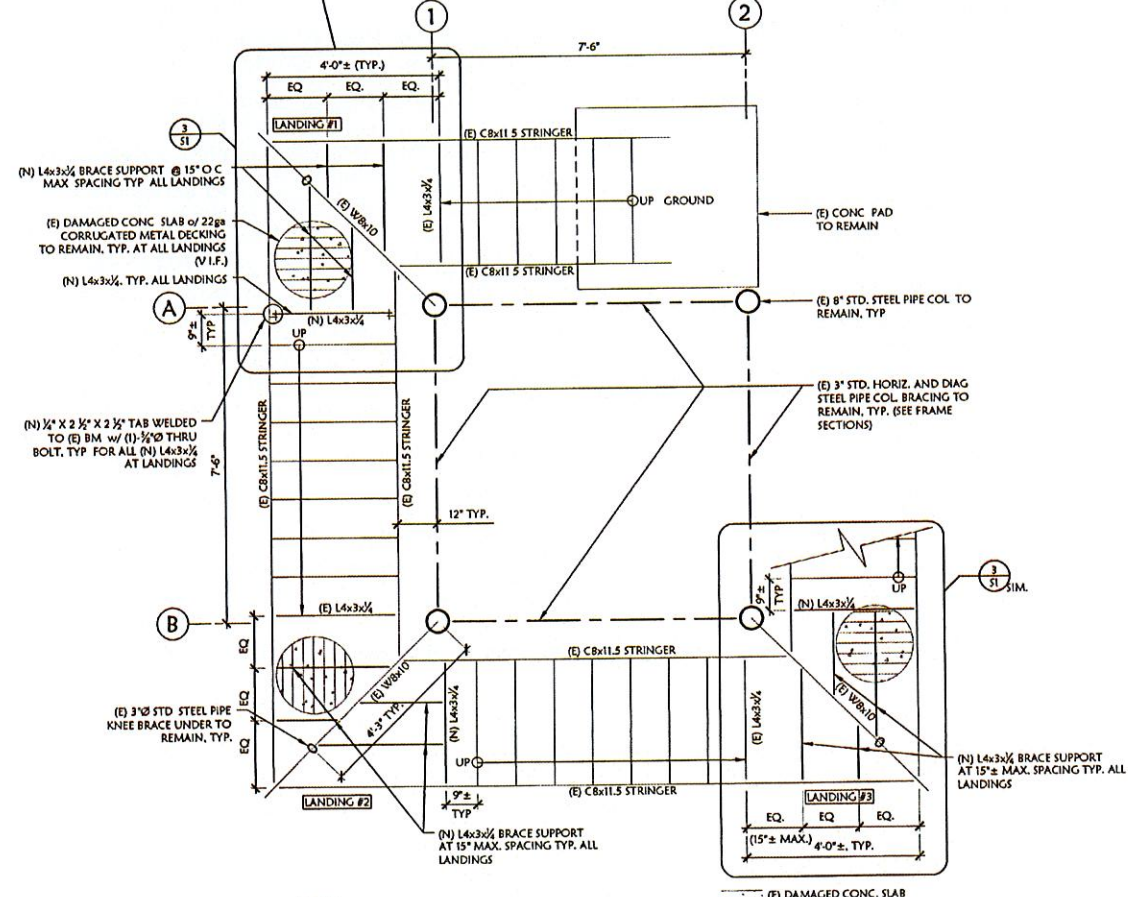
RECEIVED
NOV 02 2016
CITY OF BRENTWOOD
COMMUNITY DEVELOPMENT DEPT.



- NOTES:
1. SEE ORIGINAL CONSTRUCTION DOCUMENTS FOR ADDITIONAL PLANS AND DETAILS, CONTACT CITY OFFICIALS TO OBTAIN A COPY.
 2. ALL DIMENSIONS ARE APPROXIMATE, VERIFY EXACT DIMENSIONS IN FIELD.
 3. ALL EXISTING STRUCTURAL ELEMENTS TO REMAIN U N O
 4. NEW SUPPORT ANGLE/CHANNEL SHOULD BE SPACED NO MORE THAN 15\"/>

3
S1 TYP. STAIR LANDING REPAIR

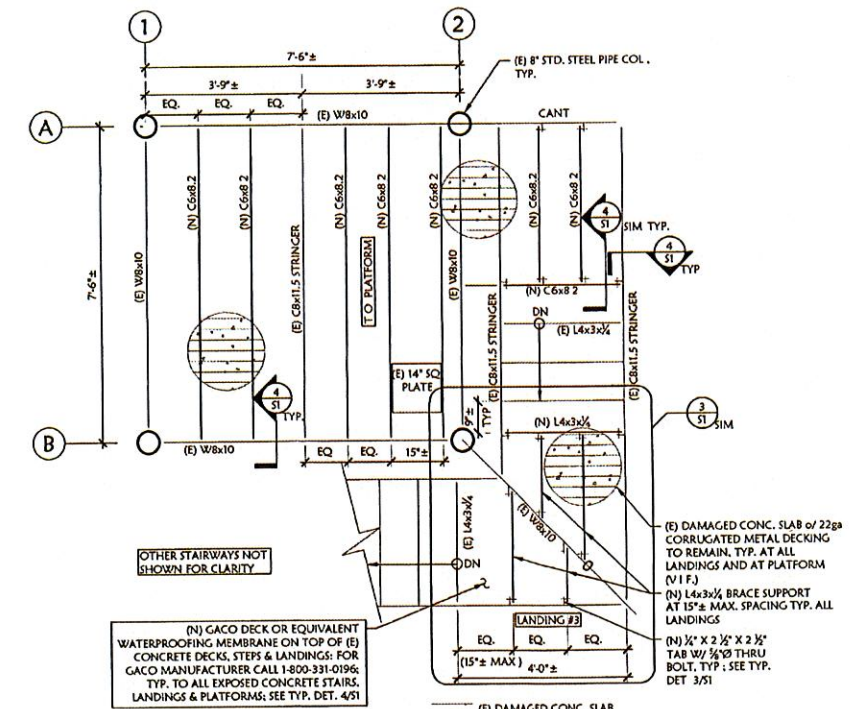
N.T.S.



- NOTES:
1. SEE ORIGINAL CONSTRUCTION DOCUMENTS FOR ADDITIONAL PLANS AND DETAILS, CONTACT CITY OFFICIALS TO OBTAIN A COPY.
 2. ALL DIMENSIONS ARE APPROXIMATE, VERIFY EXACT DIMENSIONS IN FIELD.
 3. ALL EXISTING STRUCTURAL ELEMENTS TO REMAIN U N O
 4. NEW SUPPORT ANGLE/CHANNEL SHOULD BE SPACED NO MORE THAN 15\"/>

2
S1 SLIDE 'A': STAIR/LANDINGS - PLAN

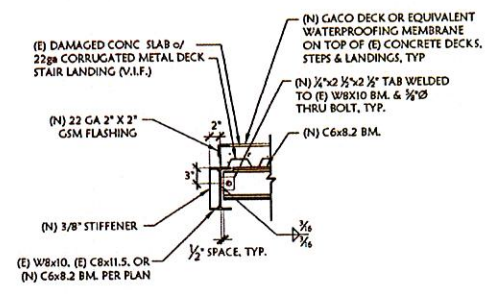
1/2" = 1'-0" N.W.



- NOTES:
1. SEE ORIGINAL CONSTRUCTION DOCUMENTS FOR ADDITIONAL PLANS AND DETAILS, CONTACT CITY OFFICIALS TO OBTAIN A COPY.
 2. ALL DIMENSIONS ARE APPROXIMATE, VERIFY EXACT DIMENSIONS IN FIELD.
 3. ALL EXISTING STRUCTURAL ELEMENTS TO REMAIN U N O
 4. NEW SUPPORT ANGLE/CHANNEL SHOULD BE SPACED NO MORE THAN 15\"/>

1
S1 SLIDE 'A': TOP PLATFORM TO STAIR/LANDING #3 - PLAN

1/2" = 1'-0" N.W.



4
S1 TYPICAL C6x8.2 BM. TO W8x10, C8x11.5, OR C6x8.2 BM. CONNECTION

N.T.S.

REVISIONS		BY
EARTHQUAKE AND STRUCTURES, INC. Structural - Civil - Construction Management 6355 Telegraph Avenue Suite 101 Oakland, CA 94609 Tel: (510) 801-1065 Fax: (510) 801-1808 www.earthquakes.com		
SLIDE 'A' FRAMING AND REPAIR PLAN AND DETAILS		
BRENTWOOD AQUATIC COMPLEX 195 GRIFFITH LANE BRENTWOOD, CA 94513		
DATE	10/18/16	
SCALE	AS NOTED	
DRAWN	AT/PTD	
JOB	12-1467	
SHEET	S1	
OF	3 SHEETS	

GENERAL STRUCTURAL NOTES

CONFORM TO THE FOLLOWING, EXCEPT WHERE MORE STRINGENT REQUIREMENTS ARE SPECIFIED.

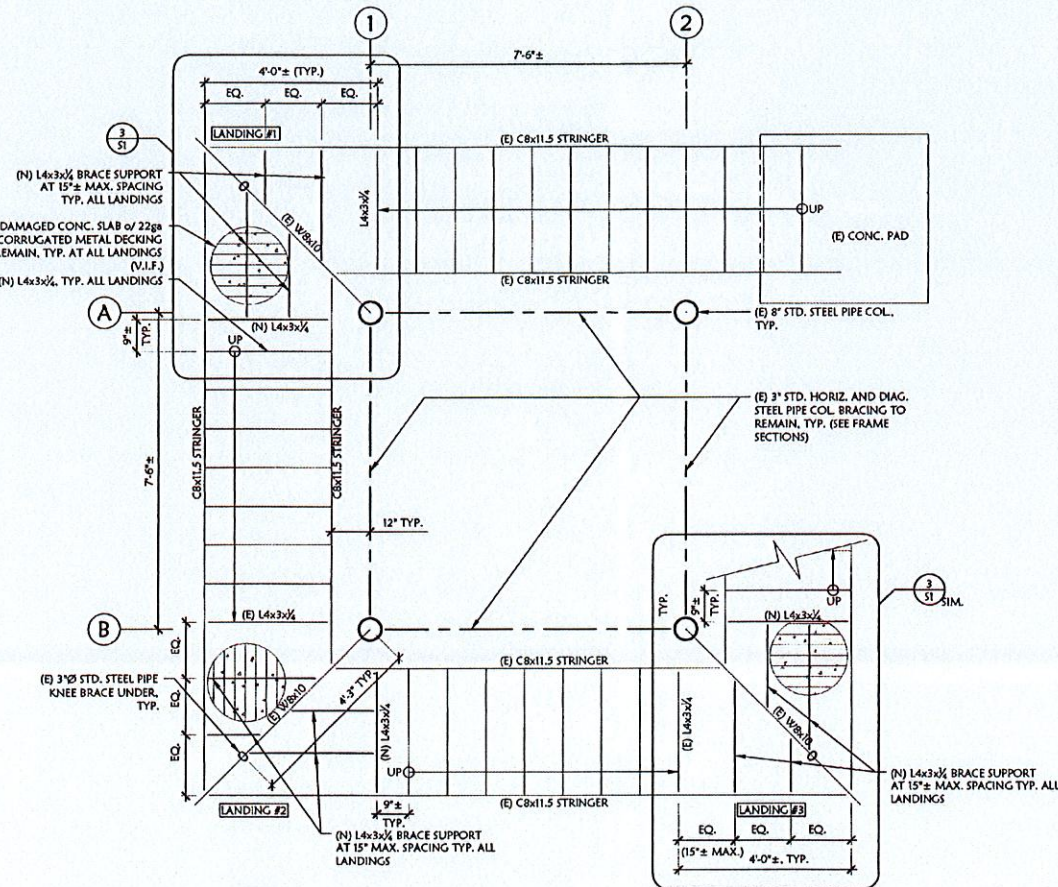
- 00701 TYPICAL CONDITIONS: TYPICAL DETAILS APPLY TO ALL CONDITIONS EXCEPT WHERE SHOWN DIFFERENTLY ELSEWHERE.
- 00703 SIMILARITY: IF CERTAIN FEATURES ARE NOT FULLY SHOWN OR CALLED FOR ON THE DRAWINGS OR SPECIFICATIONS, THEIR CONSTRUCTION SHALL BE OF THE SAME CHARACTER AS FOR SIMILAR CONDITIONS THAT ARE SHOWN OR CALLED FOR.
- 00800 EXISTING CONDITIONS: VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS AT SITE. BRING ALL INCONSISTENCIES TO THE ATTENTION OF THE DESIGN ENGINEER BEFORE PROCEEDING WITH THE WORK. ALL DIMENSIONS SHOWN ARE APPROXIMATE. DIMENSIONS SHOWN ON THE ARCHITECTURAL DRAWINGS WILL SUPERSEDE THE DIMENSIONS, IF ANY, ON THE STRUCTURAL DRAWINGS.
- 01002 DESIGN LOADS: DEAD LOADS: ACTUAL IN PLACE WEIGHTS OF MATERIALS SHOWN ON THE CONSTRUCTION DOCUMENTS. LOADS PER IBC 2012 EDITION AND CBC 2013 TABLE 24. LIVE LOADS PER ASCE 7-10 TABLE 4-1 AND CBC 2013 EDITION.
- LIVE LOADS
STAIRS/LANDING = 100 PSF
- 02151 SHORING AND BRACING: THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE CONDUCT OF THE WORK INCLUDING ALL CONSTRUCTION METHODS AND PROCEDURES, SITE SAFETY AND METHODS, DESIGN AND MATERIALS FOR TEMPORARY VERTICAL AND LATERAL SUPPORT OF EXISTING AND NEW STRUCTURES.
- 05121 STRUCTURAL STEEL: STRUCTURAL SHAPES: ASTM A992; STRUCTURAL PLATE: ASTM A36; HIGH STRENGTH BOLTS: ASTM A325, OTHER BOLTS: ASTM A307; ANCHOR BOLTS: ASTM F1554 WITH 2 DIA HOOK MIN.; PIPE COLUMN: ASTM A501, Fy = 36 KSI; STEEL TUBE: ASTM A500, GRADE B, Fy = 46 KSI.
- SHOP DRAWINGS: SUBMIT SHOP DRAWINGS AND A SET OF REPRODUCIBLE SEPIA OR VELLUM, WITH CONTRACTOR'S APPROVAL ON EACH SHEET, PRIOR TO FABRICATION.
- FABRICATION AND ERECTION PER AMERICAN INSTITUTE OF STEEL CONSTRUCTION SPECIFICATIONS FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS.
- 05123 WELDING: PER AMERICAN WELDING SOCIETY 'STEEL WELDING CODE - STEEL (ANSI/AWS D1.1-83)' OR THE LATEST CODE. ALL WELDING SHALL BE PERFORMED BY CERTIFIED WELDERS ONLY. WELD ALL AROUND ALL CONNECTIONS WITH WELD FULL THICKNESS OF THINNER ADJOINING MEMBER, UNLESS NOTED OTHERWISE (U.N.O.). ELECTRODE E70XX.
- 05124 GALVANIZING: DOUBLY HOT DIP GALVANIZE PER ASTM A153 AFTER FABRICATION, ALL ITEMS TO BE GALVANIZED AND MEMBERS EXPOSED TO EXTERIOR WEATHER, PAINT TO CITY SELECT COLOR OVER OIL BASED PRIMER ON GALVANIZED SURFACE.
- DECK WATERPROOFING: USE GACO DECK OR EQUIVALENT WATERPROOFING MEMBRANE ON TOP OF EXISTING CONCRETE DECKS, STEPS, AND LANDINGS w/ 22 GA 2" X 2" GSM FLASHING AT EDGES. FOR GACO MANUFACTURER CALL 1-800-331-0196.
- 07000 OBSERVATION: DESIGN ENGINEER RECOMMENDS OBSERVATION OF ALL WELDING AND FRAMING IN GENERAL.
- 09001 THE CONTRACTOR SHALL KEEP THE PREMISES AND SURROUNDING AREA FREE FROM ACCUMULATION OF WASTE MATERIALS OR RUBBISH CAUSED BY OPERATION UNDER THE CONTRACT. AT COMPLETION OF THE WORK, THE CONTRACTOR SHALL REMOVE FROM AND ABOUT THE PROJECT WASTE MATERIALS, RUBBISH, THE CONTRACTOR'S TOOLS, CONSTRUCTION EQUIPMENT, MACHINERY AND SURPLUS MATERIAL. KEEP SITE BROOM CLEAN AT THE END OF EACH WORK DAY.

STRUCTURAL ABBREVIATIONS:

A.B. = ANCHOR BOLT
BET. = BETWEEN
BM. = BEAM
BOT. = BOTTOM
C. = CENTERLINE
CNT JT. = CONTROL JOINT
CONC. = CONCRETE
CANT. = CANTILEVER
CONN. = CONNECTION
CONT. = CONTINUOUS
DBL. = DOUBLE
D.F. = DOUGLAS FIR
D.L. = DEAD LOAD
DIA. (Ø) = DIAMETER
(E) = EXISTING
EMB. = EMBEDMENT
E.W. = EACH WAY

FND = FOUNDATION
FTG = FOOTING
G.B. = GRADE BEAM
HORIZ. = HORIZONTAL
INV. = INVERTED
LL = LIVE LOAD
LOC. = LOCATION(S)
MAX. = MAXIMUM
MIN. = MINIMUM
(N) = NEW
N.T.S. = NOT TO SCALE
O. = OVER
O.C. = ON CENTER
P.L. = PROPERTY LINE(S)
S.A.D. = SEE ARCH
DRAWINGS
SCHD. = SCHEDULE
STAGG. = STAGGERED

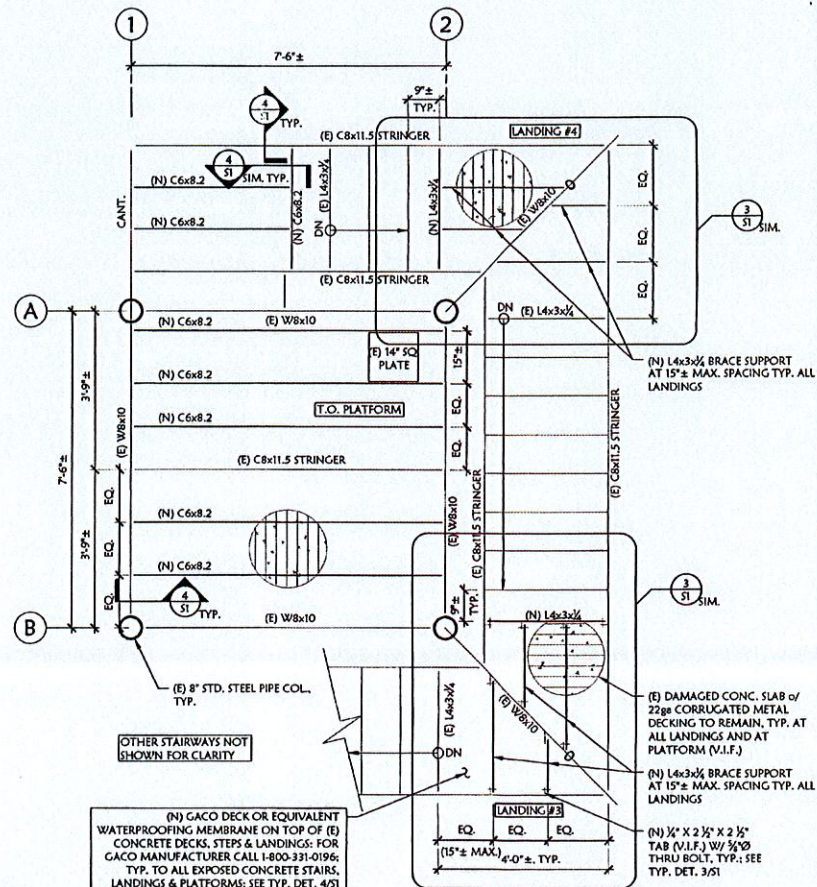
SIM. = SIMILAR
T & B = TOP AND BOTTOM
T.O. = TOP OF
TYP. = TYPICAL
U.N.O. = UNLESS NOTED
OTHERWISE
VERT. = VERTICAL
V.I.F. = VERIFY IN FIELD
w/ = WITH



- NOTES:
- SEE ORIGINAL CONSTRUCTION DOCUMENTS FOR ADDITIONAL PLANS AND DETAILS. CONTACT CITY OFFICIALS TO OBTAIN A COPY.
 - ALL DIMENSIONS ARE APPROXIMATE. VERIFY EXACT DIMENSIONS IN FIELD.
 - ALL EXISTING STRUCTURAL ELEMENTS TO REMAIN U.N.O.
 - NEW SUPPORT ANGLE/CHANNEL SHOULD BE SPACED NO MORE THAN 15" MAX.
 - (N) GACO DECK OR EQUIVALENT WATERPROOFING MEMBRANE ON TOP OF (E) CONCRETE DECKS, STEPS & LANDINGS w/ 22 GA 2" X 2" GSM FLASHING AT EDGES. FOR GACO MANUFACTURER CALL 1-800-331-0196

2 SLIDE 'B': STAIR/LANDINGS - PLAN

1/2" = 1'-0" N



- NOTES:
- SEE ORIGINAL CONSTRUCTION DOCUMENTS FOR ADDITIONAL PLANS AND DETAILS. CONTACT CITY OFFICIALS TO OBTAIN A COPY.
 - ALL DIMENSIONS ARE APPROXIMATE. VERIFY EXACT DIMENSIONS IN FIELD.
 - ALL EXISTING STRUCTURAL ELEMENTS TO REMAIN U.N.O.
 - NEW SUPPORT ANGLE/CHANNEL SHOULD BE SPACED NO MORE THAN 15" MAX.
 - (N) GACO DECK OR EQUIVALENT WATERPROOFING MEMBRANE ON TOP OF (E) CONCRETE DECKS, STEPS & LANDINGS w/ 22 GA 2" X 2" GSM FLASHING AT EDGES. FOR GACO MANUFACTURER CALL 1-800-331-0196

1 SLIDE 'B': TOP PLATFORM TO STAIR/LANDING #3 - PLAN

1/2" = 1'-0" N

REVISIONS	BY

EARTHQUAKE AND STRUCTURES, INC.
Structural ~ Civil ~ Construction Management
Tel: (510) 601-1065
Fax: (510) 601-1808
www.esieng.com

6355 Telegraph Avenue
Suite 101
Oakland, CA 94609

BRENTWOOD AQUATIC COMPLEX
195 GRIFFITH LANE
BRENTWOOD, CA 94513

DATE	10/18/16
SCALE	AS NOTED
DRAWN	AT/ED
JOB	12-1467
SHEET	S2
OF	3 SHEETS